

OFFICE OF THE TEXAS STATE CHEMIST

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FEED INDUSTRY MEMORANDUM NO. 5-29

Definition of Alkaline Phosphatase prepared from *Paenibacillus lentus*.

OBJECTIVE:

To define alkaline phosphatase prepared from *Paenibacillus lentus* for additional to poultry diets in the state of Texas to hydrolyze phosphate monoesters, resulting in phosphorus reduction in manure relating to improved phosphorus uptake by the animal.

BACKGROUND:

For the benefit of users and producers of poultry feed, a mechanism to approve new ingredients has been established. This will allow end-users of approved products to quickly get their product into the marketplace and implement their use than otherwise would be permitted by requiring their approval through customary channels such as AAFCO and/or FDA. The guiding principle of this is that an established science based need is being fulfilled is outlined in Feed Industry Memorandum 5-21.

POLICY:

Alkaline Phosphatase prepared from *Paenibacillus lentus* (previously known as *Bacillus lentus*) is prepared for use in poultry feeds for use in the hydrolysis of phosphate monoesters in grain products, animal protein products, and plant protein products such as corn meal, animal by-product meal, soybean meal, and sunflower meal. The label shall: describe the enzyme source; its intended purpose; a full listing of ingredients in order of preponderance; have a guaranteed analysis; show a net quantity of product; allow product identification; and provide product storage information, in accordance with practices provided by the Association of American Feed Control Officials (AAFCO) Enzyme Marketing Coordination Model Guidance Document. The label shall include a guarantee of enzyme activity, expressed in appropriate units and shall include adequate directions for use (including any known product limitations) to achieve the functionality of the enzyme, the amount of product necessary to produce the intended effect, the length of time required to achieve this effect, and other necessary information required for enzyme functionality.



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